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Db   2571 ATTAATATATAATAATATAATATATAATATAATAGTAATATATAATAATATAATATATAA 2630

Qy   1034 tgatataata 1043
               |  |||||||
Db   2631 TATTATAATA 2640


RESULT 13
AC093914
LOCUS       AC093914              170536 bp    DNA     linear   PRI 08-FEB-2002
DEFINITION  Homo sapiens BAC clone RP11-779N9 from 4, complete sequence.
ACCESSION   AC093914 AC021567
VERSION     AC093914.3  GI:18497279
KEYWORDS    HTG.
SOURCE      human.
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 170536)
  AUTHORS   Sulston,J.E. and Waterston,R.
  TITLE     Toward a complete human genome sequence
  JOURNAL   Genome Res. 8 (11), 1097-1108 (1998)
  MEDLINE   99063792
REFERENCE   2  (bases 1 to 170536)
  AUTHORS   Pearman,C., Meyer,R., Doebber,A. and Bielicki,L.
  TITLE     The sequence of Homo sapiens BAC clone RP11-779N9
  JOURNAL   Unpublished (2001)
REFERENCE   3  (bases 1 to 170536)
  AUTHORS   Waterston,R.H.
  TITLE     Direct Submission
  JOURNAL   Submitted (10-SEP-2001) Genome Sequencing Center, Washington
            University School of Medicine, 4444 Forest Park Parkway, St. Louis,
            MO 63108, USA
REFERENCE   4  (bases 1 to 170536)
  AUTHORS   Waterston,R.H.
  TITLE     Direct Submission
  JOURNAL   Submitted (05-FEB-2002) Genome Sequencing Center, Washington
            University School of Medicine, 4444 Forest Park Parkway, St. Louis,
            MO 63108, USA
REFERENCE   5  (bases 1 to 170536)
  AUTHORS   Waterston,R.
  TITLE     Direct Submission
  JOURNAL   Submitted (08-FEB-2002) Department of Genetics, Washington
            University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
COMMENT     On Feb 5, 2002 this sequence version replaced gi:15799674.
            ---------- Genome Center
                Center: Washington University Genome Sequencing Center
                Center code: WUGSC
                Web site: http://genome.wustl.edu/gsc
                Contact: sapiens@watson.wustl.edu
            ---------- Summary Statistics
                Center project name: H_NH0779N09
                Drafting Center: WIBR
            ----------.

            NOTICE:  This sequence may not represent the entire insert of this
            clone.  It may be shorter because we only sequence overlapping
            clone sections once, or longer because we provide a small overlap
            between neighboring data submissions.

            This sequence was finished as follows unless otherwise noted:
            all regions were double stranded, sequenced with an alternate
            chemistry, or covered by high quality data (i.e., phred quality >=
            30); an attempt was made to resolve all sequencing problems, such
            as compressions and repeats; all regions were covered by sequence
            from more than one subclone; and the assembly was confirmed by
            restriction digest.

            MAPPING INFORMATION:
            Mapping information for this clone was provided by Dr. John D.
            McPherson, Department of Genetics, Washington University, St. Louis
            MO. For additional information about the map position of this
            sequence, see http://genome.wustl.edu/gsc

            SOURCE INFORMATION:
            The RPCI-11 human BAC library was made from the blood of one male
            donor, as described by Osoegawa,K., Woon,P.Y., Zhao,B., Frengen,E.,
            Tateno,M., Catanese,J.J. and de Jong,P.J. (1998) An improved
            approach for construction of bacterial artificial chromosome
            libraries. Genomics 51:1-8. The clone may be obtained either from
            Research Genetics, Inc. (http://www.resgen.com) or Pieter de Jong
            and coworkers at the Roswell Park Cancer Institute
            (http://bacpac.med.buffalo.edu)
            VECTOR:  pBACe3.6

            NEIGHBORING SEQUENCE INFORMATION:
            The clone sequenced to the left is RP11-509I10.  Actual start of
            this clone is at base position 1 of RP11-779N9; actual end is at
            base position 170536 of RP11-779N9.

            Data from AC091490 was used to finish this clone, AC093914.

            The sequence of AC021567 has been incorporated into AC093914.
FEATURES             Location/Qualifiers
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                     /clone_lib="RPCI-11"
     repeat_region   1. .263
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     repeat_region   5669. .5849
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     repeat_region   8740. .9109
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     repeat_region   9119. .9230
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     repeat_region   9236. .9402
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     repeat_region   9403. .9680
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     repeat_region   12396. .12425
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  Query Match             4.7%;  Score 51.6;  DB 9;  Length 170536;
  Best Local Similarity   46.9%;  Pred. No. 0.18;
  Matches  194;  Conservative    0;  Mismatches  219;  Indels    1;  Gaps    1;

Qy    630 aaacaaaataattattatcatatgaaacctaaatatagacaatagcacctaataaaataa 689
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Db 115304 ACATATAATAATATATATTATATGTAATATATATATATATAATTATATATAATATATAAT 115363

Qy    690 agaaaacggggaagtaagcatgcaatttacacaacaaaggtcagcagcaagatcaccaaa 749
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Db 115364 ATAATATATTATATATAATATATTATATTTAATATATAATAAATTATATATATAATATAT 115423

Qy    750 gatgaactgtacattctggacttcttttgattaaaatgtttcatatatagttaactatag 809
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Db 115424 AATAAATTATATATATAATATATATAATAAACTATATATAATATATATAATAAACTATA- 115482

Qy    810 tgtataatcgttcttgggttttgtcagaatctgggataaaatttatacttttatttgtcc 869
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Db 115483 TATATAATATATATAATAAACTATATATATTATATATATAATAAACTATATATATAATAT 115542

Qy    870 taatgaataaggataattacatgcaacacaataaactctgttgacctagataagcattca 929
          || |  ||  | |  || |    ||| |||||||| | |  |        |  ||  |
Db 115543 ATATAATAAATTACATATATAATATACATAATAAACTATATATATAATATACATAATAAA 115602

Qy    930 caaaaaaagcagaaagtgttttggaaactataaatcccatcttccctatacaagattagt 989
          | | |   | |   | | |  |||| ||  ||      || | | ||   |
Db 115603 TTATATATATAATATACATAATAAACTATATATATAATATACATAATAAATTATATATAT 115662

Qy    990 attgtaagtaagtattatgtattagaagttaggctgtctttgactgatataata 1043
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RESULT  14
DMU11584/c
LOCUS       DMU11584                4601 bp    DNA     linear   INV 23-JUL-1994
DEFINITION  Drosophila melanogaster Oregon-R mitochondrial A+T region.
ACCESSION   U11584
VERSION     U11584.1  GI:508826
KEYWORDS    mitochondrial DNA; A+T region; tandem repeats.
SOURCE      fruit fly.
  ORGANISM  Mitochondrion Drosophila melanogaster
            Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
            Pterygota; Neoptera; Endopterygota; Diptera; Brachycera;
            Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.
REFERENCE   1  (bases 1 to 4601)
  AUTHORS   Lewis,D.L., Farr,C.L., Farquhar,A.L. and Kaguni,L.S.
  TITLE     Sequence, Organization and Evolution of the A+T Region of
            Drosophila melanogaster Mitochondrial DNA
  JOURNAL   Mol. Biol. Evol. 11, 523-538 (1994)
  MEDLINE   94285822
REFERENCE   2  (bases 1 to 4601)
  AUTHORS   Kaguni,L.S.
  TITLE     Direct Submission
  JOURNAL   Submitted (28-JUN-1994) Laurie S. Kaguni Ph.D, Dept. of
            Biochemistry, Michigan State University, East Lansing, MI,
            48824-1318, USA
FEATURES             Location/Qualifiers
     source          1. .4601
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